Aeronautics Educator Guide			
2005 Mathematics			
Core Curriculum			
New York Mathematics			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Rotor Motor (69-75)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Rotor Motor (69-75)	NY	MA.2.2.S.3	Display data in pictographs and bar graphs using concrete objects or a representation of the object
Where is North? The Compass Can Tell Us (87-90)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Dunked Napkin (17-22)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Dunked Napkin (17-22)	NY	MA.2.2.S.2	Collect and record data (using tallies) related to the question
Dunked Napkin (17-22)	NY	MA.2.2.S.5	Discuss conclusions and make predictions from graphs
Paper Bag Mask (23-28)	NY	MA.2.2.G.5	Explore and predict the outcome of slides, flips, and turns of two-dimensional shapes
Paper Bag Mask (23-28)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Paper Bag Mask (23-28)	NY	MA.2.2.S.5	Discuss conclusions and make predictions from graphs
Wind in Your Socks) (29-35)	NY	MA.2.2.M.2	Use a ruler to measure standard units (including whole inches and whole feet)
Wind in Your Socks) (29-35)	NY	MA.2.2.M.3	Compare and order objects according to the attribute of length
Wind in Your Socks) (29-35)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Bag Balloons (40-43)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
Sled Kite (44-51)	NY	MA.2.2.S.1	Formulate questions about themselves and their surroundings
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Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Rotor Motor (69-75)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Rotor Motor (69-75)	NY	MA.3.3.S.5	Display data in pictographs and bar graphs
Where is North? The Compass Can Tell Us (87-90)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings

Dunked Napkin (17-22)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Paper Bag Mask (23-28)	NY	MA.3.3.M.1	Select tools and units (customary) appropriate for the length measured
Paper Bag Mask (23-28)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Wind in Your Socks) (29-35)	NY	MA.3.3.M.1	Select tools and units (customary) appropriate for the length measured
Wind in Your Socks) (29-35)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Wind in Your Socks) (29-35)	NY	MA.3.3.S.2	Collect data using observation and surveys, and record appropriately
Bag Balloons (40-43)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
Sled Kite (44-51)	NY	MA.3.3.S.1	Formulate questions about themselves and their surroundings
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2005 Mathematics			
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Grade 4			
Activity/Lesson	**State**	**Standards**	
Rotor Motor (69-75)	NY	MA.4.4.S.3	Represent data using tables, bar graphs, and pictographs
Flight: Interdisciplinary Learning Activities (76-79)	NY	MA.4.4.M.9	Calculate elapsed time in hours and half hours, not crossing A.M./P.M.
Flight: Interdisciplinary Learning Activities (76-79)	NY	MA.4.4.S.6	Formulate conclusions and make predictions from graphs
Paper Bag Mask (23-28)	NY	MA.4.4.M.1	Select tools and units (customary and metric) appropriate for the length being measured
Paper Bag Mask (23-28)	NY	MA.4.4.S.5	Develop and make predictions that are based on data
Paper Bag Mask (23-28)	NY	MA.4.4.S.6	Formulate conclusions and make predictions from graphs
Wind in Your Socks) (29-35)	NY	MA.4.4.M.1	Select tools and units (customary and metric) appropriate for the length being measured
Wind in Your Socks) (29-35)	NY	MA.4.4.S.2	Collect data using observations, surveys, and experiments and record appropriately
Right Flight (52-59)	NY	MA.4.4.S.5	Develop and make predictions that are based on data
Delta Wing Glider (60-68)	NY	MA.4.4.S.5	Develop and make predictions that are based on data